



TECHNICAL DATA SHEET

PR EPOX 100S Epoxy primer 100%S



DESCRIPTION

100% solids resin, high penetration primer, dry mortar, undercoat, crack filler, half-rounds and bond coat on concrete, mortar, stone, cement plaster, fiber cement.

ADVANTAGES

- ✓ Good adhesion on concrete.
- ✓ High abrasion resistance, excellent hardness.
- ✓ High resistance to solvents and chemicals.
- ✓ Excellent color and gloss resistance.
- ✓ High solids content. 100%.
- ✓ Very good resistance to road traffic.
- ✓ Excellent coverage.
- ✓ Very good levelling.
- ✓ Good chemical resistance.
- ✓ No roller lines or overlaps.
- ✓ Low odor.
- ✓ Reusable once the can has been opened. (without catalyzing the product).
- ✓ Good impact resistance.

RECOMMENDED USES

- ✓ Roller application: approximate consumption 200grs m².
- ✓ Rubber roller application: approximate consumption 500grs m². If the application requires silica saturation, the estimated consumption of aggregate will be approximately 1kg. Applied undercoat mixture of 1 to 1 primer and aggregate 04-09 applied with a flat trowel leaving an allowance of 1.5kg m² proportion of 750grs primer 750grs aggregate (for multilayer systems or as a bonding bridge with mortar systems, terrazzo, etc., fresh saturation of 3/3.5kg of sílice 04-09).
- ✓ Used as a putty for repairing cracks and crevices with an added mixture of thixotropic G9.
- ✓ Resin for the realization of half reeds.
- ✓ Semi-pigmentation in the base coats for colored quartz systems with a percentage of 3 to 5 % pigment paste.

PRESENTATION

Gloss finish.

Kit 14kg. Comp A 10kg. Comp B 4kg.

TECHNICAL CHARACTERISTICS

Composition Fixed vehicle Epoxy resin.

Density 1.1 ± 0.02 Kg/L.

V.Solids 100%

Coverage 0.200kg m2 per coat

Drying

To the touch	5 hours	
Total	8 hours	
Repainting	12 hours	Maximum 48 hours.

APPLICATION

Coats 1 coat with 0.200kg m2 of coverage

Product mixing: Mix comp A and comp B until a perfect blend is acquired. Mixing ratio 2.5 to 1.

Mixing time: Maximum **20 to 30** minutes.

Recommended thickness 0.400kg applied in two coats for finishing multilayer system and self-levelling.

Dilution 3%, Epoxy Thinner or fluidiser.

Application temp. Ambient and pavement temperature between 10 and 25 °C .

SURFACE PREPARATION

New surfaces:

Wait for the cement to cure completely (approximately 1 month). The plaster must be dry, clean and free of dust, grease, mold, algae and other contaminants.

Mechanical treatment by means of SAT diamond disc machine and subsequent vacuuming.

Repair of fissures, cracks and crazing by means of thixotropic epoxy resin **PR EPOX 100S**.

Apply a coat of water based epoxy primer, **PR EPOXW 20** on inconsistent and absorbent or very alkaline surfaces. In case of efflorescence or saltpeter treat with diluted acid solution, rinse with plenty of water and let dry.

It is essential to regulate the porosity of the surface to ensure the penetration and anchorage of the paint, for this the best results are obtained through mechanical methods since in addition to regulating the porosity of the support it will eliminate any type of substance or unwanted foreign body.

If a mechanical treatment is not possible, then a chemical treatment must be carried out: eliminate foreign or unwanted agents by using diluted chlorohydric acid and rinse thoroughly with water; allow the substrate to dry completely and proceed to normal painting.

Painted surfaces:

If the paint is well adhered, sand with rotary machine and vacuum to remove loose particles, clean and degrease.

On satin surfaces sand and vacuum.

Apply previously a coat of water-based epoxy primer, **PR EPOXW 20**, as a bonding bridge on substrates with a relative residual humidity of 3 to 6% on the substrate.

On substrates with residual humidity of less than 3%, apply as a primer.

PR EPOX -100S 100% solids colorless primer with an allowance per m² of 0.200kg.

Unstable or poor surfaces:

If the paint is old or poorly adhered with defects such as chalking, blistering, chipping, cracking, etc., remove the remains mechanically, repair cracks or flaws and apply a coat of **PR EPOX -100S** 100% solids colourless primer.

IMPORTANT:

In high humidity conditions or below 10°C, **PRODUCT DOES NOT HARDEN**. Do not apply the paint on very hot substrates due exposed to direct sunlight.

Surfaces in general should be clean, dry and free of grease, dust and rust. Flooring must be clean, dry and well set (28 days) Residual moisture less than 6%.

Surfaces should preferably be roughened to improve adherence.

On unpainted surfaces: Apply 2 or 3 coats (the first coat more diluted (30%) diluted) On surfaces with old paint: remove loose and flakey paint and proceed as for unpainted surfaces.

The consumptions are approximate and will depend on the state of the support. For other application systems, please consult with the technical department.

. The surface tensile strength should be > 1.5 N/mm² and the moisture content should be <4%. The concrete must have an open porous structure for good penetration of the primer.

It is recommended to prepare the substrate by polishing, milling or shot blasting.

TOOL CLEANING.

All tools should be cleaned once the product has been applied, never let the product dry on the tools. Eliminate residues with universal solvent, fluidiser, xylene.

COLD MATERIALS: When dealing with epoxy resins and urethanes, cold material will result in slower than normal cure times and can affect their physical properties once cured. Cold materials are more difficult to mix, unfold and level. Before applying materials in cold temperatures, they should be stored in a heated environment or in a heated storage container at the ideal temperature indicated on the Product Data Sheet. The longer the materials can be stored in a heated environment, the better they will perform.

- **COLD ENVIRONMENT TEMPERATURES:** This condition will also cause slower than normal cure of epoxy and urethane materials. It will also make them more difficult to roll out and level. It may cause bubbling/blistering problems because the viscosity of the epoxy has increased due to the cooler temperatures, preventing vapor trapped in the substrate from escaping. Prior to application, the temperature in the application area should be at normal service temperature for a minimum of 48 hours. If necessary, use forced heat by means of portable heaters.

- **COLD SURFACE TEMPERATURES:** Concrete surfaces that have a temperature of 10oC or below will drastically slow down the normal curing of epoxies and urethanes and can reduce cure by up to 6 hours or more. It can also affect the physical properties of cured membranes, making some epoxies flexible. Cool substrate temperatures can prevent epoxies from "wetting" or penetrating the surface of the concrete, which causes adhesion problems. Prior to application, service temperatures should be at normal operating conditions, a minimum of 15°C, for a minimum of 48 hours. If this cannot be achieved, the use of heat strengthening may be necessary.

- **BASEMENTS, SPACES WITH LITTLE VENTILATION:** in spaces with little ventilation or basements the relative humidity due to condensation reaches levels in which the products suffer diverse consequences in the finishes. From shading due to condensation in the environment to the curing of the same.

- **RECOMMENDATIONS:**

1. Ensure adequate airflow at all times before and during application and in curing processes
2. Use a heat gun covering the entire area. It will help eliminate humidity, reaching a suitable temperature of the support and the environment for the execution of the products.
3. Never apply epoxy, polyurethane, acrylic, below 10°C.
4. The substrate and ambient temperature should be at least 3°C above the dew point during application.

HOT SUBSTRATE / AND / OR MATERIAL: Supports exposed to high temperatures exceeding 26 ° C directly affects the physical and chemical properties of materials. Direct effects on the application since, the materials depending on their nature will have a cause and effect such as crazing, micro-cracking, orange peel, accelerated drying with loss of properties, colour changes, loss of leveling, etc,....

• RECOMMENDATIONS

Do not apply in ambient temperatures above 25°C. Do not apply outdoors in the warm hours of the day.

Do not expose the materials to high temperatures or store in direct sunlight. Do not apply if the substrate temperature is above 30°C.

STORAGE

Easy to mix by shaking after 12 months storage in closed containers. Does not form skins, clots or gels. Keep away from temperatures below 0 °C.

SAFETY

SAFETY, HEALTH AND ENVIRONMENT

In general avoid contact with eyes and skin, wear gloves, goggles and appropriate clothing. Keep out of reach of children. Use only in well-ventilated areas. Do not flush waste down the drain. Keep container tightly closed and in a suitable place. Ensure proper transport of the product; prevent any accident or incident that may occur during transport due to breakage or deterioration of the container. Keep the container in a safe place and in the correct position. Do not use or store the product in extreme temperature conditions. You should always take into account the legislation in force concerning the Environment, Hygiene, Health and Safety at work. For further information, it is essential to read the SAFETY SAFETY DATA SHEET of the product.

It is advisable to periodically check the update status of this Technical Data Sheet.

Pinturas Pinay assures the conformity of its products with the specifications given in the technical data sheets. The technical advice given by Pinturas Pinay, before or after delivery of the products, are merely indicative and given in good faith and constitute its best knowledge, according to the current state of the art, but without guarantee on the final results as these depend on conditions of use that are beyond our control. All our sales are subject to our general conditions of sale, which we advise you to read.

See labeling and Material Safety Data Sheet.



Pinturas Ayelenses s.l.
P.I. San José, s/n / 46812
Ayelo de Malferit / Valencia / Spain
t. 96 236 02 92 / f. 96 236 06 01
pinturaspinay.com
info@pinturaspinay.com